



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 16 77 35 68

Classification of the application (IPC):
B60L 11/18, G06F 13/10, H04W 4/40, H04W 92/00, H02J 7/00

Technical fields searched (IPC):
B60L

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
Y	WO 2010120551 A1 (GRIDPOINT INC [US]; POLLACK SETH [US]; BRIDGES SETH [US]; LAFKY JOBY) 21 October 2010 (2010-10-21) * paragraph [0084] - paragraph [0122] * * paragraph [0205] - paragraph [0213] * * figures 1-4, 13 *	1-14
Y	WO 2012163396 A1 (SIEMENS AG [DE]; KEPKA ALEXANDER [DE]; KORFF MAXIMILIAN [DE]; SALOMON) 06 December 2012 (2012-12-06) * page 1, line 34 - page 3, line 34 * * figures 1-3 *	1-14
A	US 2013088199 A1 (MATSUNO CRAIG [US] ET AL) 11 April 2013 (2013-04-11) * paragraph [0015] - paragraph [0016] * * figures 1, 2 *	6, 12
A	WO 2013100764 A1 (ABB BV [NL]) 04 July 2013 (2013-07-04) * page 3, line 7 - page 4, line 2 * * page 10, line 32 - page 10, line 33 * * figures 4, 5a-b, 6a-b *	1-14
A	US 2012074901 A1 (MOHAMMED TIM [US]) 29 March 2012 (2012-03-29) * paragraph [0010] - paragraph [0012] * * figures 1, 2 *	1-14
A	EP 2792538 A2 (HONDA MOTOR CO LTD [JP]) 22 October 2014 (2014-10-22) * paragraph [0055] - paragraph [0058] * * figures 1-3 *	1-14
A	EP 2645514 A1 (EH EUROPE GMBH [CH]) 02 October 2013 (2013-10-02) * paragraphs [0006], [0009] * * figure 1 *	1-14

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 16 October 2018	Examiner Eriksson, Hans
------------------------------	---	----------------------------

CATEGORY OF CITED DOCUMENTS

- | | |
|---|--|
| X: particularly relevant if taken alone | P: intermediate document |
| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention |
| A: technological background | E: earlier patent document, but published on, or after the filing date |
| O: non-written disclosure | D: document cited in the application |
| | L: document cited for other reasons |
| & : member of the same patent family, corresponding document | |

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 16 77 35 68

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
A	WO 2012055756 A1 (SIEMENS AG [DE]; GOEBEL STEFFEN [DE]; KUSCHEL BORIS [DE]) 03 May 2012 (2012-05-03) * abstract; figures 1, 2 *	1-14

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 16 October 2018	Examiner Eriksson, Hans
------------------------------	---	----------------------------

CATEGORY OF CITED DOCUMENTS

- | | |
|---|--|
| X: particularly relevant if taken alone | P: intermediate document |
| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention |
| A: technological background | E: earlier patent document, but published on, or after the filing date |
| O: non-written disclosure | D: document cited in the application |
| | L: document cited for other reasons |
| & : member of the same patent family, corresponding document | |

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.



ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:

EP 16 77 35 68

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 16-10-2018.
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2010120551	A1	21-10-2010	CN 102449572 A	09-05-2012
			GB 2481946 A	11-01-2012
			US 2011001356 A1	06-01-2011
			US 2011004358 A1	06-01-2011
			US 2011004406 A1	06-01-2011
			US 2011007824 A1	13-01-2011
			US 2011010043 A1	13-01-2011
			US 2011010158 A1	13-01-2011
			US 2013217409 A1	22-08-2013
			US 2015202976 A1	23-07-2015
			US 2016221453 A1	04-08-2016
			WO 2010120551 A1	21-10-2010
WO2012163396	A1	06-12-2012	NONE	
US 2013088199	A1	11-04-2013	US 2013088199 A1	11-04-2013
			WO 2013052954 A1	11-04-2013
WO 2013100764	A1	04-07-2013	CN 104160546 A	19-11-2014
			EP 2798694 A1	05-11-2014
			JP 2015507914 A	12-03-2015
			NL 2008058 C	03-07-2013
			TW 201342772 A	16-10-2013
			US 2015165917 A1	18-06-2015
			WO 2013100764 A1	04-07-2013
US 2012074901	A1	29-03-2012	NONE	
EP 2792538	A2	22-10-2014	CN 104113105 A	22-10-2014
			EP 2792538 A2	22-10-2014
			JP 2014212690 A	13-11-2014
			US 2014316939 A1	23-10-2014
EP 2645514	A1	02-10-2013	NONE	
WO 2012055756	A1	03-05-2012	DE 102010043001 A1	03-05-2012
			WO 2012055756 A1	03-05-2012